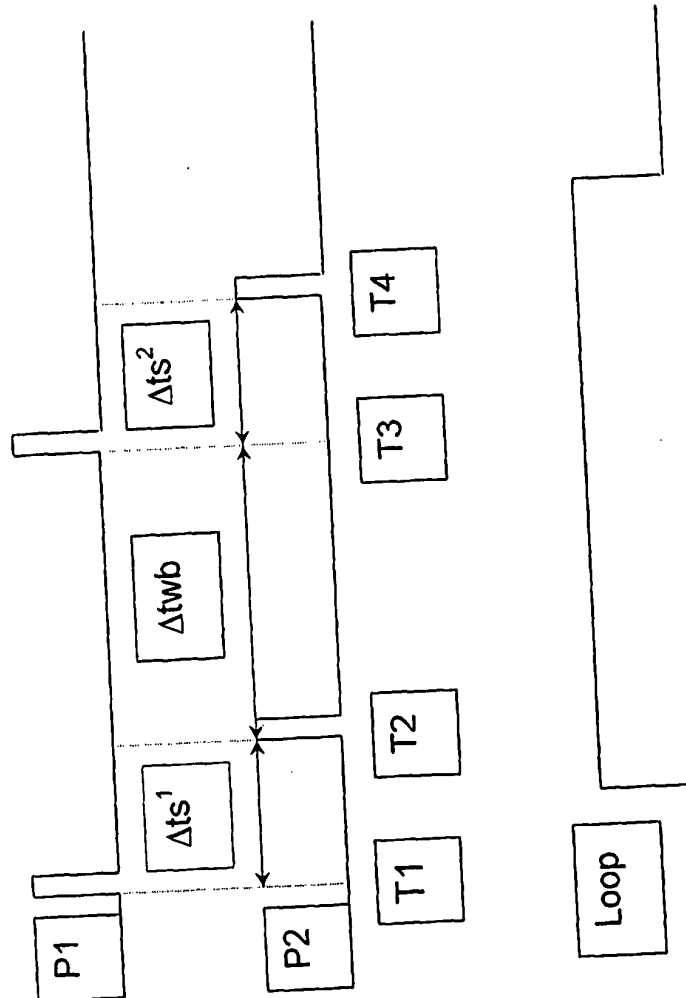


Figure 1

**LEGEND**

P1	Piezoelectric Sensor 1
P2	Piezoelectric Sensor 2
Loop	Inductive Loop
T1	Time when Front Axle triggers P1
T2	Time when Front Axle triggers P2
T3	Time when Rear Axle triggers P1
T3	Time when Rear Axle triggers P2
$\Delta t_s^1$	Time Interval used to measure the Speed of the Front Axle (T2-T1)
$\Delta t_s^2$	Time Interval used to measure the Speed of the Rear Axle (T4-T3)
$\Delta t_{wb}$	Time Interval used to measure the Wheel Base (T3-T2)
$cs^1$	Count Speed 1 is the Number of Interval Counts between T2 and T1 ( $\Delta t_s^1 \cdot freq$ )
$cs^2$	Count Speed 2 is the Number of Interval Counts between T4 and T3 ( $\Delta t_s^2 \cdot freq$ )
$cswb$	Count Speed Wheel Base is the Number of Interval Counts between T3 and T2 ( $\Delta t_{wb} \cdot freq$ )
$freq$	Reference Crystal Frequency
$d$	Distance separating P1 and P2

**Figure 2**